| 1 | Index | of Cl | aims |  |
|---|-------|-------|------|--|
|   |       |       |      |  |

| Application/Control No. | Applicant(s)/Patent under Reexamination |
|-------------------------|---|
| 10/776,697              | DUNTEN ET AL.                           |
| Examiner                | Art Unit                                |
| Mark L. Berch           | 1624                                    |

| , | Rejected | [. | - | (Through numeral)<br>Cancelled |
|---|----------|----|---|--------------------------------|
| = | Allowed  |    | ÷ | Restricted                     |

| N | Non-Elected  | Α | Appeal   |
|---|--------------|---|----------|
| ı | Interference | 0 | Objected |

| Cla      | im           | Date    |          |   |          |              |          | Date Claim Date |  |          |          |            |                |          |          | Claim Date |          |          |          |           |          |          | ;         |            | _        |  |          |          |          |          |           |   |          |
|----------|--------------|---------|----------|---|----------|--------------|----------|-----------------|--|----------|----------|------------|----------------|----------|----------|------------|----------|----------|----------|-----------|----------|----------|-----------|------------|----------|--|----------|----------|----------|----------|-----------|---|----------|
|          | <del>-</del> | ا ا     |          |   |          | l            |          |                 |  |          |          |            | <del>_</del> _ |          |          | - [        | - 1      |          |          |           |          |          | Ì         | ₩          |          |  |          |          | İ        |          |           |   |          |
| Final    | Original     | 1/18/06 |          |   |          | ļ            |          |                 |  |          | ı        | Final      | Original       |          |          |            | - 1      |          |          | -         |          |          | Final     | Originat   |          |  |          |          |          |          | ı         |   |          |
| 证        | Öriç         | =       |          |   |          |              |          |                 |  |          |          | iĪ.        | Ğ              |          |          |            |          |          |          |           |          |          | iĒ        | Ö          |          |  |          |          |          |          |           |   |          |
|          |              | Ш       | Ш        |   | _        | <u> </u>     | <u> </u> | L               | $\sqcup$   | $\dashv$ | _        |            |                |          |          |            |          |          | _        |           |          | _        |           |            | _        |  | _        |          | _        | $\dashv$ | _         | _   | ᆚ        |
|          | 1            | =       | $\sqcup$ |   |          | <u> </u>     | <u> </u> | ļ               |  | 4        |          |            | 51             | =        |          | _          | _        | _        | _        | 4         | _        | 4        |           | 101        | =        | Ш  | _        | _        | _        | 4        | 4         | 4   | ᆚ        |
|          | 2            | =       |          |   | ļ        | <u> </u>     | <u> </u> | <u> </u>        | $\vdash$   |          | -        |            | 52             | п        | $\Box$   | _          | _        | _        | -        | 4         |          | 4        |           | 102        | =        | Ш  | _        | _        |          | _        | 4         | $\dashv$  | ᆜ        |
|          | 3            | =       |          |   | ļ        | <u> </u>     | ⊢        | <del> </del>    |  |          | -        |            | 53             | 11       | $\dashv$ |            | -        | $\dashv$ | -        | -         |          | 4        |           | 103        | =        |  | _        | _        | _        | _        | 4         | _   | _        |
|          | 4            | =       | Н        |   | <u> </u> | <u> </u>     | _        |                 | $\vdash \vdash$                                  | $\dashv$ | -        |            | 54             | 11       | -        | $\dashv$   | $\dashv$ | $\dashv$ | +        | -         |          | 4        | <u> </u>  | 104        |          | $\sqcup$   | _        |          |          | -        | 4         | +   | ᅴ        |
|          | 5<br>6       | =       |          |   | -        | ├-           | ├        |                 | $\vdash$   | $\dashv$ | }        |            | 55             | =        | $\dashv$ | $\dashv$   | $\dashv$ | $\dashv$ |          | -         |          | ┥        | -         | 105        |          |  |          | -        | _        | $\dashv$ | _         | +   | ႕        |
| $\vdash$ | 7            | -       | $\vdash$ | _ | ├—       | ├            |          | $\vdash$        | $\vdash$   | $\dashv$ | -        |            | 56<br>57       | =        | $\dashv$ |            |          |          | +        |           |          | 4        | <u> </u>  | 106<br>107 | <u> </u> | Н  | -        | -        |          |          | +         | +   | $\dashv$ |
| $\vdash$ | 8            | =       | Н        |   | ┝        |              | ├—       | -               | $\vdash$   | $\dashv$ | -        |            | 58             | =        | $\dashv$ | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ | -         |          | ┨        | <u> </u>  | 107        | _        | $\vdash \vdash$                                  | $\dashv$ | $\dashv$ | ᅱ        | +        | +         | +   | ᅴ        |
| $\vdash$ | 9            | =       | $\vdash$ | _ | ├─       | $\vdash$     | ⊢        | ┢               | $\vdash$   | $\dashv$ | ┝        |            | 59             | =        | $\dashv$ |            | $\dashv$ | $\dashv$ | -        | +         | +        | ┥        | <u> </u>  | 109        | -        | -  | $\dashv$ | $\dashv$ |          | -+       | +         | +   | $\dashv$ |
| $\vdash$ | 10           | =       | Н        | _ | ├─       | -            | ├        | $\vdash$        | $\vdash$   | $\dashv$ | ⊦        |            | 60             | =        | $\dashv$ | $\dashv$   | $\dashv$ |          |          | +         | +        | ┨        |           | 110        | ⊢        | $\vdash$   | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +         | +   | $\dashv$ |
|          | 11           | =       | Н        |   | $\vdash$ | ┢            | ┢        | -               | $\vdash$   | $\dashv$ | <b>-</b> |            | 61             | =        | $\dashv$ | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ | +         | +        | ┥        |           | 111        | -        | Н  | $\dashv$ | ᅱ        | $\dashv$ | -        |           | +   | $\dashv$ |
|          | 12           | =       | $\vdash$ |   | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$        | $\vdash \vdash$                                  | $\dashv$ | <b> </b> |            | 62             | =        | $\vdash$ | +          | $\dashv$ | +        | +        | $\dashv$  | +        | ┪        | $\vdash$  | 112        | _        | $\vdash \vdash$                                  | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | +         | +   | $\dashv$ |
|          | 13           | =       | H        |   | $\vdash$ |              |          | Т               | $\vdash$   | $\dashv$ | <b> </b> |            | 63             | =        | $\vdash$ | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$ | 1        |           | 113        | H        | $\vdash$   |          | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | +   | ᅴ        |
|          | 14           | =       | Н        |   | Г        | $\vdash$     | $\vdash$ | T               | $\vdash$   | $\dashv$ | ı        |            | 64             | =        |          | $\neg$     | $\neg$   | $\dashv$ | $\dashv$ | $\dashv$  | +        | 1        |           | 114        | $\vdash$ | $\vdash$   | $\dashv$ |          | $\dashv$ | $\dashv$ | $\dashv$  | $\dashv$  | ㅓ        |
|          | 15           | =       | П        |   |          | Ι            |          | Ι               |  | ヿ        | r        |            | 65             | =        | $\sqcap$ | $\dashv$   | $\dashv$ | 7        | $\dashv$ | _         | $\top$   | 1        |           | 115        | $\vdash$ | $\Box$   | $\dashv$ | $\dashv$ | $\dashv$ | 1        | $\dashv$  | $\dashv$  | ٦        |
|          | 16           | =       |          |   |          |              |          |                 |  | $\neg$   | r        |            | 66             | =        |          | 寸          | $\neg$   | $\dashv$ | 十        | $\dashv$  | $\dashv$ | 7        |           | 116        | Г        | $\Box$   | $\dashv$ |          |          | $\dashv$ | $\dashv$  | 十   | ㅓ        |
|          | 17           | =       |          |   | Г        | Π            | Γ        |                 |  | $\neg$   |          |            | 67             | =        |          | $\neg$     | $\neg$   | $\neg$   |          |           |          | 7        |           | 117        |          | П  | $\neg$   | $\neg$   |          |          | 丁         | ┪   | ٦        |
|          | 18           | =       |          | _ |          |              |          |                 |  | $\neg$   | Γ        |            | 68             | -        |          | $\neg$     | $\neg$   | $\neg$   | T        | 丁         |          | 7        |           | 118        |          | П  |          | $\neg$   |          | T        |           | $\neg$  | ╗        |
|          | 19           | =       |          |   |          |              |          |                 |  |          |          |            | 69             | Ξ        |          |            |          |          |          |           |          | 7        |           | 119        |          | П  |          | $\neg$   |          |          |           | T   | П        |
|          | 20           |         |          |   |          |              |          |                 |  |          |          |            | 70             | =        |          |            |          |          |          |           |          | ]        |           | 120        |          | П  |          | $\neg$   |          | $\neg$   | $\neg$    | $\top$  | ٦        |
|          | 21           | ш       |          |   |          |              |          |                 |  |          |          |            | 71             | =        |          |            |          | $\Box$   |          |           |          |          |           | 121        |          |  |          |          | П        | П        | Т         | $\top$  | П        |
|          | 22           | =       |          |   |          |              |          |                 |  |          |          |            | 72             | =        |          |            |          |          |          |           |          | 3        |           | 122        |          |  |          |          |          | T        | $\Box$    | $\Box$  |          |
|          | 23           | =       |          |   |          |              |          |                 |  |          | L        |            | 73             | =        |          |            |          |          |          |           |          |          |           | 123        |          |  |          |          |          |          |           |   |          |
|          | 24           | =       |          |   |          |              | L        |                 |  | _        | L        |            | 74             | =        |          |            | _        |          | $\perp$  | $\perp$   | $\perp$  |          |           | 124        |          |  |          |          |          |          |           |   |          |
|          | 25           | =       |          |   |          | L            |          |                 |  | _        | L        |            | 75             | =        |          | _          | _        | _        |          | _         |          | 1        |           | 125        |          | Ш  |          | _        | $\Box$   | $\perp$  | $\perp$   | $\perp$   |          |
|          | 26           | =       |          |   |          | Щ.           |          |                 |  | _        | L        |            | 76             | =        | _        | _          | _        | 4        |          | _ _       |          | _        |           | 126        |          | Ш  |          |          | _        | _        | $\perp$   | _   | ┙        |
|          | 27           | "       | $\Box$   |   |          |              | L        |                 |  | 4        | L        | <b></b> -∤ | 77             | =        | 4        | _          | _        | _        | _        | _         | $\perp$  | 4        | <u> </u>  | 127        |          | Ш  |          | _        | _        | 4        | $\perp$   | $\bot$  | _        |
|          | 28           | =       | $\dashv$ |   | _        |              |          |                 | $\vdash$   | 4        | F        |            | 78             | 1        | _        | _          |          | _        | 4        | 4         |          | 4        |           | 128        |          |  | _        | _        |          | _        | $\perp$   | _   | 4        |
|          | 29           | =       | $\dashv$ |   | -        | _            | <u> </u> |                 |  | 4        | ⊢        |            | 79             | =        | _        |            |          | -        | $\dashv$ | +         |          | 4        | ļ         | 129        |          | $\sqcup$   |          |          | $\dashv$ | $\dashv$ | 4         | _   | ᅴ        |
|          | 30           | =       | $\dashv$ |   | _        |              | H        |                 |  | 4        | F        |            | 80             | =        | $\dashv$ | -          |          | $\dashv$ | +        | +         |          | 4        | <u> </u>  | 130        | _        | $\dashv$   |          | _        | -        | 4        | 4         | _   | 4        |
|          | 31<br>32     | =       | $\dashv$ | _ |          |              | -        | $\vdash$        | $\vdash$   | _        | ⊦        | $\dashv$   | 81             | =        | $\dashv$ | -          | -        |          | +        | $\dashv$  |          | 4        |           | 131        |          |  | $\dashv$ | _        |          | 4        | $\dashv$  | +   | 긕        |
|          | 33           | =       | $\dashv$ | - |          | -            | $\vdash$ | $\vdash$        | -  | _        | H        |            | 82<br>83       | -        | $\dashv$ |            | $\dashv$ | $\dashv$ | +        |           | _        | 4        | <u> </u>  | 132<br>133 |          | $\dashv$   |          |          |          | $\dashv$ | -         | -   | 4        |
|          | 34           | 1       | $\vdash$ | _ |          | $\vdash$     |          | Н               | $\vdash$   | $\dashv$ | -        | $\dashv$   | 84             | -        |          | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | +        | $\dashv$ | $\vdash$  | 134        |          | $\vdash$   |          | $\dashv$ | +        | +        | +         | +   | $\dashv$ |
|          | 35           | =       | $\vdash$ | _ | _        |              | -        | $\vdash$        | -  | $\dashv$ | $\vdash$ | -+         | 85             | =        | -        | ┥          |          | +        | +        | +         | +        | ┨        | -         | 135        |          |  | -        | $\dashv$ | -        | -+       | +         | +   | $\dashv$ |
|          | 36           | =       | $\vdash$ | _ |          | $\vdash$     | $\vdash$ | $\vdash$        | <del>                                     </del> | $\dashv$ | ⊢        |            | 86             | =        |          |            |          | $\dashv$ | +        | +         | +        | $\dashv$ | $\vdash$  | 136        | -        | $\vdash \dashv$                                  | $\dashv$ | $\dashv$ |          | +        | +         | +   | ᅱ        |
|          | 37           | =       | $\vdash$ | _ | _        | <del> </del> |          | $\vdash$        | $\vdash$   | $\dashv$ | ⊢        |            | 87             | =        |          | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | +        | $\dashv$ |           | 137        | -        | $\vdash \vdash$                                  | $\dashv$ |          | -+       | $\dashv$ | +         | +   | $\dashv$ |
|          | 38           | =       |          | - |          |              |          | Н               | $\vdash$   | $\dashv$ | ┟        |            | 88             | =        | $\dashv$ | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | +        | ┪        | <b>—</b>  | 138        | -        | $\vdash$   | $\dashv$ | ┪        | -        | +        | +         | +   | ㅓ        |
| -        | 39           | =       | $\Box$   | _ |          | $\vdash$     |          | H               | $\forall$  | -        | F        |            | 89             | =        | $\dashv$ | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  | +        | 1        |           | 139        |          | <del>                                     </del> | -        | +        | -+       | +        | +         | +   | $\dashv$ |
|          | 40           | =       |          |   |          |              |          | $\vdash$        | $\vdash$   | $\neg$   | 一        |            | 90             | =        |          | $\dashv$   | _        | _        | $\dashv$ | 十         | $\dashv$ | 1        |           | 140        |          | $\dashv$   | -        | $\dashv$ | +        | $\dashv$ | $\top$    | +   | ᅱ        |
|          | 41           | =       |          |   |          |              |          | П               |  | $\neg$   | T        |            | 91             | =        |          | 寸          |          | 1        | $\dashv$ | $\dashv$  | $\neg$   | 1        |           | 141        |          |  | 寸        | 寸        | 寸        | 寸        | $\dashv$  | $\top$  | ┨        |
|          | 42           | =       |          |   |          |              |          |                 |  |          |          |            | 92             | =        |          |            | _        |          |          |           | 7        | 1        |           | 142        |          | $\Box$   | _        | $\dashv$ | 寸        | $\dashv$ | $\top$    | $\top$  | ヿ        |
|          | 43           | =       |          |   |          |              |          |                 |  |          |          |            | 93             | =        |          |            |          |          | $\Box$   |           |          |          |           | 143        |          |  |          | ╗        |          | $\Box$   |           | 1   | ٦        |
|          | 44           | =       |          |   |          |              |          |                 | $\Box$   | $\Box$   |          |            | 94             | =        |          |            |          |          |          | I         |          |          |           | 144        |          |  |          |          |          | ⅃        | 丁         | 丁   |          |
|          | 45           | =       | Ш        |   |          | Ш            |          | Ш               |  |          |          |            | 95             | =        | $\Box$   | $\Box$     |          | $\Box$   | $\perp$  | $_{ m I}$ |          |          |           | 145        |          |  | $\Box$   |          |          | $\Box$   | $\Box$    | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ |          |
|          | 46           | =       | $\perp$  |   |          | Щ            | Щ        | Ш               |  | $\Box$   | L        |            | 96             | =        | $\perp$  | _[         | $\Box$   | $\perp$  |          | _         |          | _        |           | 146        |          | Ш  |          | ӟ        |          | $\Box$   | $oxed{I}$ | $oldsymbol{\perp}$                                |          |
|          | 47           | =       | $\Box$   |   |          |              | Щ        | $\sqcup$        | $\dashv$   | $\dashv$ | L        |            | 97             | <b>V</b> | _        |            |          | $\perp$  | $\perp$  | $\perp$   | $\perp$  | _        |           | 147        |          | Ш  |          |          |          |          |           | $\perp$   |          |
|          | 48           | =       | $\sqcup$ |   |          | Ш            | Щ        | $\sqcup$        | Ц.   | 4        | L        |            | 98             | =        | _        |            | $\dashv$ | $\dashv$ | _        | $\bot$    | _        | 4        | <u></u>   | 148        |          |  |          | _        |          |          | $\perp$   | $\perp$   | $\Box$   |
|          | 49           | 1       | $\dashv$ |   |          | Ш            | $\vdash$ | $\vdash \vdash$ | $\dashv$   | 4        | Ļ        |            | 99             | =        | _        | _          | _        | $\dashv$ | 4        | _         |          | 4        | $\square$ | 149        |          | Ш  |          | _        | ļ        | _        | $\perp$   | $\bot$  | $\dashv$ |
| 1        | 50           | =       |          |   |          | Ш            |          | Ш               |  |          | L        |            | 100            | =        |          |            |          | $\perp$  |          |           |          | J        |           | 150        |          |  | į        |          |          |          |           |   | ╝        |